

Table S1. Unit costs (per day for inpatient stays) for resource use taken from 2016/2017 National Schedule of Reference Costs (2016/2017 GBP)²⁶

| Resource | Unit cost (£) |
|--|----------------------|
| Outpatient | 129 |
| Antenatal ward | 809 |
| Labour Ward | 724 |
| Maternal Intensive Care/High Dependency Care | 1012 |
| Neonatal Unit | 340 |

Table S2. Model inputs for revealed PIGF testing for antenatal costs

| | Diagnosis | Outpatient visits, n mean | Outpatient visits, n SE | Cost | Antenatal Ward | Antenatal ward se | Cost | Labour ward | Labour ward SE | Cost |
|-------------|------------------|----------------------------------|--------------------------------|-------------|-----------------------|--------------------------|-------------|--------------------|-----------------------|-------------|
| PIGF>100 | Normal | 6.039471 | 0.821633 | 778.0047 | 1.087079 | 0.213071 | 879.4469 | 0.538285 | 0.115798 | 389.7185 |
| | GH/CHT/SGA | 7.986798 | 0.945846 | 1028.859 | 1.542404 | 0.235514 | 1247.805 | 0.692995 | 0.123705 | 501.7284 |
| | Pre-eclampsia | 8.376477 | 1.485062 | 1079.058 | 5.153079 | 1.179306 | 4168.841 | 0.794508 | 0.196133 | 575.2239 |
| Plgf<100>12 | Normal | 5.36796 | 1.098899 | 691.5006 | 0.81746 | 0.274417 | 661.3251 | 0.704587 | 0.2004 | 510.1206 |
| | GH/CHT/SGA | 7.483879 | 0.990128 | 964.0733 | 2.372329 | 0.412841 | 1919.214 | 0.671975 | 0.132991 | 486.5096 |
| | Pre-eclampsia | 5.180283 | 0.622814 | 667.3241 | 5.709159 | 0.813716 | 4618.71 | 0.782674 | 0.140804 | 566.6557 |
| PIGF<12 | Normal | | | | | | | | | |
| | GH/CHT/SGA | 5.698915 | 1.349894 | 734.1342 | 5.921327 | 1.875136 | 4790.354 | 0.422098 | 0.165004 | 305.5992 |
| | Pre-eclampsia | 4.425083 | 0.539258 | 570.0392 | 6.322338 | 0.906354 | 5114.771 | 0.577905 | 0.108955 | 418.4029 |

Table S3. Model inputs for revealed PIGF testing for postnatal costs

| | Diagnosis | Postnatal ward Mean | Postnatal ward SE | Cost | High need | High need SE | Cost |
|-------------|------------------|----------------------------|--------------------------|-------------|------------------|---------------------|-------------|
| PIGF>100 | Normal | 1.528936 | 0.176884 | 1106.95 | 0.097257 | 0.041836 | 98.42439 |
| | GH/CHT/SGA | 1.840509 | 0.16592 | 1332.529 | 0.175934 | 0.051856 | 178.0448 |
| | Pre-eclampsia | 3.165373 | 0.436271 | 2291.73 | 0.528301 | 0.204471 | 534.6404 |
| Plgf<100>12 | Normal | 1.932686 | 0.341121 | 1399.265 | 0.152544 | 0.09401 | 154.3747 |
| | GH/CHT/SGA | 2.826986 | 0.275142 | 2046.738 | 0.134063 | 0.051758 | 135.672 |
| | Pre-eclampsia | 3.387897 | 0.273765 | 2452.837 | 0.521421 | 0.131584 | 527.6775 |
| PIGF<12 | Normal | | | | | | |
| | GH/CHT/SGA | 3.221175 | 0.585443 | 2332.131 | 0.208702 | 0.136497 | 211.2065 |
| | Pre-eclampsia | 4.201791 | 0.321327 | 3042.097 | 1.214391 | 0.289255 | 1228.964 |

Table S4. Model inputs for revealed PIGF testing for infant costs

| | Diagnosis | Infant admitted HDU/ICU | Infant admit SE | Infant los HDU/ICU | Infant LOS SE | Infant ICU/HDU cost | Infant los SCBU | Infant LOS SE | Infant SCBU cost |
|-------------|-------------------|--|----------------------------|-----------------------------------|--------------------------|------------------------------------|----------------------------|--------------------------|---------------------------------|
| PIGF>100 | Normal | 0.042349 | 0.024211 | 13 | 10.70074 | 187.1817 | 0.168241 | 0.075318 | 57.20197 |
| | GH/CHT/SGA | 0.073257 | 0.024801 | 8.666667 | 1.92713 | 215.8625 | 0.805477 | 0.237718 | 273.8621 |
| | Pre- eclampsia | 0.151931 | 0.063425 | 5.2 | 1.567997 | 268.6135 | 2.176834 | 1.07045 | 740.1236 |
| Plgf<100>12 | Normal | 0 | 0 | 0 | 0 | 0 | 0.442301 | 0.291395 | 150.3825 |
| | GH/CHT/SGA | 0.116305 | 0.037999 | 7 | 1.744341 | 276.8054 | 2.375839 | 0.811442 | 807.7853 |
| | Pre- eclampsia | 0.292303 | 0.048112 | 14.39394 | 3.327992 | 1430.512 | 5.90239 | 1.638849 | 2006.813 |
| PIGF<12 | Normal | | | | | | | | |
| | GH/CHT/SGA | 0.408132 | 0.120391 | 19.57143 | 8.580245 | 2715.826 | 10.5525 | 6.652056 | 3587.85 |
| | Pre- eclampsia | 0.487437 | 0.053973 | 18.55556 | 3.177951 | 3075.189 | 13.17782 | 3.665785 | 4480.459 |

Table S5. Model inputs in concealed PIGF testing for antenatal costs

| | Diagnosis | Outpatient visits, n mean | Outpatient visits, n SE | Cost | Antenatal Ward | Antenatal ward se | Cost | Labour ward | Labour ward SE | Cost |
|-------------|---------------|---------------------------|-------------------------|----------|----------------|-------------------|----------|-------------|----------------|----------|
| PIGF>100 | Normal | 11.06014 | 1.629282 | 1424.767 | 0.948858 | 0.215468 | 767.6262 | 0.392139 | 0.105223 | 283.9087 |
| | GH/CHT/SGA | 11.70156 | 1.521237 | 1507.395 | 2.736931 | 0.474298 | 2214.177 | 0.545693 | 0.114187 | 395.0815 |
| | Pre-eclampsia | 10.97693 | 2.015226 | 1414.048 | 3.395794 | 0.84151 | 2747.197 | 0.629727 | 0.170935 | 455.9221 |
| Plgf<100>12 | Normal | 10.08389 | 2.167276 | 1299.007 | 1.03271 | 0.354972 | 835.4624 | 0.324179 | 0.133194 | 234.7055 |
| | GH/CHT/SGA | 8.561043 | 1.143293 | 1102.834 | 2.356203 | 0.423323 | 1906.168 | 0.609826 | 0.127806 | 441.514 |
| | Pre-eclampsia | 9.763741 | 1.214002 | 1257.765 | 4.748596 | 0.742103 | 3841.614 | 0.764099 | 0.144472 | 553.2074 |
| PIGF<12 | Normal | 4.952535 | 2.149283 | 637.9856 | 0.952351 | 0.690364 | 770.4521 | 0.229167 | 0.235714 | 165.9172 |
| | GH/CHT/SGA | 7.88944 | 1.813436 | 1016.318 | 1.791595 | 0.607602 | 1449.4 | 0.496536 | 0.186018 | 359.492 |
| | Pre-eclampsia | 7.104001 | 0.909941 | 915.1374 | 5.602629 | 0.890069 | 4532.527 | 0.657822 | 0.128406 | 476.2629 |

Table S6. Model inputs in concealed PIGF testing for postnatal costs

| | Diagnosis | Postnatal ward Mean | Postnatal ward SE | Cost | High need | High need SE | Cost |
|-------------|------------------|------------------------------------|------------------------------|-------------|----------------------|-------------------------|-------------|
| PIGF>100 | Normal | 1.689389 | 0.219839 | 1223.118 | 0.054563 | 0.035162 | 55.21776 |
| | GH/CHT/SGA | 2.481695 | 0.252854 | 1796.747 | 0.259343 | 0.089599 | 262.4553 |
| | Pre-eclampsia | 2.40467 | 0.370908 | 1740.981 | 0.60471 | 0.254159 | 611.9664 |
| Plgf<100>12 | Normal | 2.279245 | 0.425869 | 1650.173 | 0.533331 | 0.28021 | 539.7306 |
| | GH/CHT/SGA | 2.823447 | 0.283944 | 2044.176 | 0.082609 | 0.04041 | 83.6 |
| | Pre-eclampsia | 2.889429 | 0.267679 | 2091.947 | 0.853006 | 0.237684 | 863.2418 |
| PIGF<12 | Normal | 1.762265 | 0.708562 | 1275.88 | 3.44E-10 | 9.82E-06 | 3.48E-07 |
| | GH/CHT/SGA | 4.015174 | 0.682349 | 2906.986 | 3.29E-10 | 4.77E-06 | 3.33E-07 |
| | Pre-eclampsia | 3.624549 | 0.321932 | 2624.173 | 1.234034 | 0.329472 | 1248.842 |

Table S7. Model inputs in concealed PIGF testing for infant costs

| | Diagnosis | Infant admitted HDU/ICU | Infant admit SE | Infant los HDU/ICU | Infant LOS SE | Infant ICU/HDU cost | Infant los SCBU | Infant LOS SE | Infant SCBU cost |
|-------------|------------------|--|----------------------------|-----------------------------------|--------------------------|------------------------------------|----------------------------|--------------------------|---------------------------------|
| PIGF>100 | Normal | 0 | 0 | 0 | 0 | 0 | 0.707839 | 0.314946 | 240.6653 |
| | GH/CHT/SGA | 0.097723 | 0.036142 | 35.85714 | 18.21511 | 1191.385 | 1.113436 | 0.391043 | 378.5682 |
| | Pre-eclampsia | 0.101768 | 0.055922 | 5.333333 | 5.876411 | 184.54 | 1.019797 | 0.561244 | 346.731 |
| Plgf<100>12 | Normal | 0.101595 | 0.068008 | 2.5 | 1.535764 | 86.35592 | 1.555728 | 1.020697 | 528.9475 |
| | GH/CHT/SGA | 0.08774 | 0.035103 | 40.83333 | 15.7764 | 1218.125 | 3.481389 | 1.20688 | 1183.672 |
| | Pre-eclampsia | 0.16184 | 0.041748 | 6.714286 | 3.349861 | 369.4576 | 4.259938 | 1.329539 | 1448.379 |
| PIGF<12 | Normal | 0 | 0 | 0 | 0 | 0 | 5.66E-09 | 3.43E-05 | 1.92E-06 |
| | GH/CHT/SGA | 0.398552 | 0.117149 | 72.28571 | 26.29157 | 9795.257 | 11.41148 | 7.374402 | 3879.903 |
| | Pre-eclampsia | 0.379988 | 0.058471 | 17.46875 | 3.781358 | 2256.889 | 11.38512 | 3.55963 | 3870.941 |

Table S8. Results of model: actual total cost per patient for PIGF and usual care

| | Diagnosis | Revealed PIGF | | | | Usual Care | | | |
|-------------|---------------|---------------|----------|-----------|----------|------------|----------|-----------|----------|
| | | Total Mat | Weighted | Total inf | Weighted | Total Mat | Weighted | Total inf | Weighted |
| PIGF>100 | Normal | 3252.544 | 413.4316 | 244.3837 | 31.06366 | 3754.638 | 477.2528 | 240.6653 | 30.59102 |
| | GH/CHT/SGA | 4288.966 | 830.5346 | 489.7246 | 94.83247 | 6175.856 | 1195.921 | 1569.954 | 304.0129 |
| | Pre-eclampsia | 8649.493 | 532.5408 | 1008.737 | 62.10695 | 6970.115 | 429.1431 | 531.271 | 32.70983 |
| Plgf<100>12 | Normal | 3416.586 | 156.0704 | 150.3825 | 6.869507 | 4559.078 | 208.2598 | 615.3034 | 28.10721 |
| | GH/CHT/SGA | 5552.207 | 816.0145 | 1084.591 | 159.4036 | 5578.291 | 819.8482 | 2401.797 | 352.995 |
| | Pre-eclampsia | 8833.204 | 1684.186 | 3437.324 | 655.3786 | 8607.775 | 1641.204 | 1817.837 | 346.5984 |
| PIGF<12 | Normal | 0 | 0 | 0 | 0 | 2850.235 | 14.15211 | 1.92E-06 | 9.56E-09 |
| | GH/CHT/SGA | 8373.424 | 299.3478 | 6303.676 | 225.3549 | 5732.196 | 204.9246 | 13675.16 | 488.8836 |
| | Pre-eclampsia | 10374.27 | 2008.921 | 7555.648 | 1463.11 | 9796.943 | 1897.124 | 6127.83 | 1186.621 |